Amendments to the Abstract:

Please replace the Abstract with the following:

~~According to the present invention, techniques for performing real-time backup of data in the presence of a pending hazard, such as a natural disaster, or the like. Embodiments can provide data storage controllers, networked data storage systems, methods and the like, that detect imminent hazardous conditions and alter backup behavior to provide greater integrity of backed up data. In a representative embodiment according to the present invention, update of the primary data is temporarily suspended after the recognition of a probable occurrence of a hazardous event. By suspending updating the primary data temporarily, the increase of un-updated secondary data can be prevented, so that lost data is decreased. Then, the un-updated secondary data can be updated quickly or exclusively, in order to avoid un-updated secondary data.~~ A data storage apparatus is connected to a host computer, and sends data to a backup data storage apparatus connected to the data storage apparatus with an asynchronous copy mode or a synchronous copy mode. The apparatus includes a data medium to store data sent from the host computer; a cache memory; and a controller configured to move data into and out of the data medium and the cache memory. The data storage apparatus performs copying in the asynchronous copy mode to the backup data storage apparatus while the controller does not detect probability of data loss in the data storage apparatus, and performs copying in the synchronous copy mode to the backup data storage apparatus when the controller detects the probability of data loss in the data storage apparatus.